

Comparisons of Job Characteristics

Focus Occupation: Stationary Engineers and Boiler Operators (51-8021)

Associated Occupation: Power Plant Operators (51-8013)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Stationary Engineers and Boiler Operators (51-8021)

Associated Occupation: Power Plant Operators (51-8013)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	12.8	18.6	>> Current knowledge level is likely more than sufficient
Chemistry	4.8	9.8	10.0	0 Current knowledge level may be sufficient
Public Safety and Security	6.9	9.7	10.6	0 Current knowledge level may be sufficient
Physics	4.3	9.3	9.6	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	8.4	10.4	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Stationary Engineers and Boiler Operators (51-8021)

Associated Occupation: Power Plant Operators (51-8013)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	12.7	10.7	< A higher skill level may be required
Operation and Control	5.4	10.8	9.6	< A higher skill level may be required
Quality Control Analysis	5.9	10.6	8.4	< A higher skill level may be required
Troubleshooting	4.5	10.0	9.2	0 Current skill level may be sufficient
Equipment Maintenance	3.5	8.5	8.5	0 Current skill level may be sufficient
Repairing	3.4	7.9	8.5	0 Current skill level may be sufficient
Equipment Selection	3.3	6.2	6.5	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 92			
Focus Occupation: Stationary Engineers and Boiler Operators (51-8021) Associated Occupation: Power Plant Operators (51-8013)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Selective Attention	8.7	10.8	10.1	0	Current ability level may be sufficient
Perceptual Speed	7.4	10.7	10.7	0	Current ability level may be sufficient
Auditory Attention	5.9	8.6	9.1	0	Current ability level may be sufficient
Time Sharing	6.6	8.5	6.0	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	7.5	5.8	<	Some improvement in abilities may be required
Rate Control	3.8	7.1	6.0	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 88
Focus Occupation: Stationary Engineers and Boiler Operators (51-8021) Associated Occupation: Power Plant Operators (51-8013)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Clean equipment or machinery	20	
Control operation of compressors	76	
Install/connect electrical equipment to power circuit	57	
Maintain consistent production quality	50	
Maintain or repair industrial or related equipment/machinery	39	
Maintain production or work records	19	
Monitor production machinery/equipment operation to detect problems	27	
Operate power driven pumps	66	
Operate power generation equipment	84	
Perform safety inspections in manufacturing or industrial setting	33	
Use electrical or electronic test devices or equipment	40	
Use hand or power tools	2	
Use pneumatic tools	66	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 74

Focus Occupation: Stationary Engineers and Boiler Operators (51-8021)
Associated Occupation: Power Plant Operators (51-8013)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Data management and query software	1
Dispensing tools	6
Electrochemical measuring instruments and accessories	9
Gas analyzers and monitors	10
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Pressure measuring and control instruments	10
Pumps	9
Respiratory protection	6
Transducers	23
Water treatment and supply equipment	21

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.